

Graph each function without a calculator.

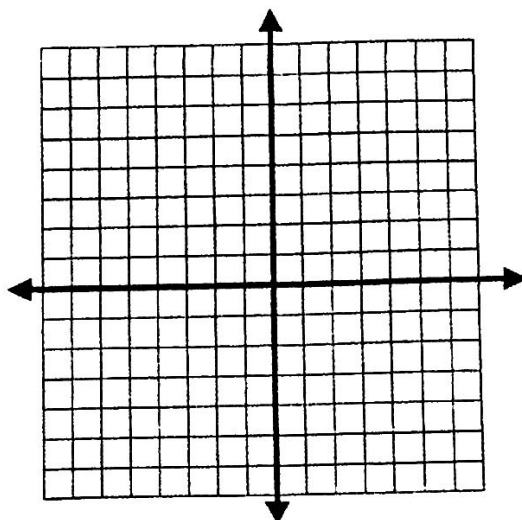
1.  $f(x) = \begin{cases} 2x + 3, & x < 0 \\ 3 - x, & x \geq 0 \end{cases}$

Evaluate the following:

$$f(0) =$$

$$f(-3) =$$

$$f(2) =$$

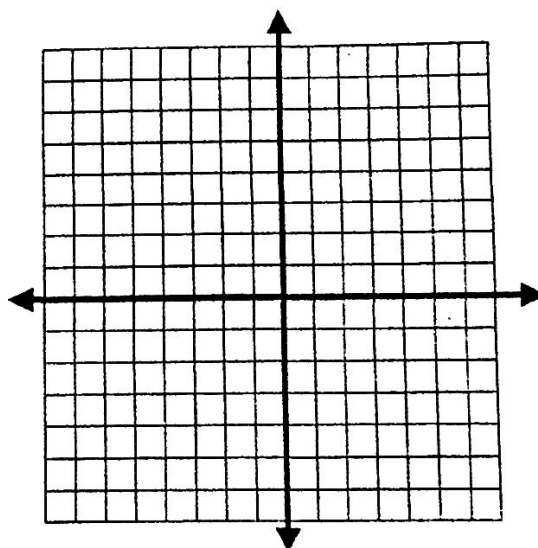


2.  $f(x) = \begin{cases} x + 3, & x \leq 0 \\ 3, & 0 < x \leq 2 \\ 2x - 1, & x > 2 \end{cases}$

Evaluate the following:

$$f(-1) =$$

$$f(1) =$$



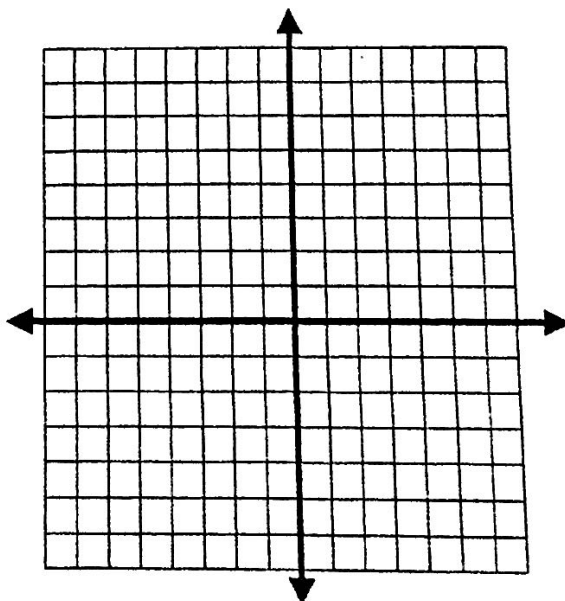
3.  $f(x) = \begin{cases} 3x + 5, & x \leq -2 \\ x - 4, & x > 2 \end{cases}$

Evaluate the following:

$$f(2) =$$

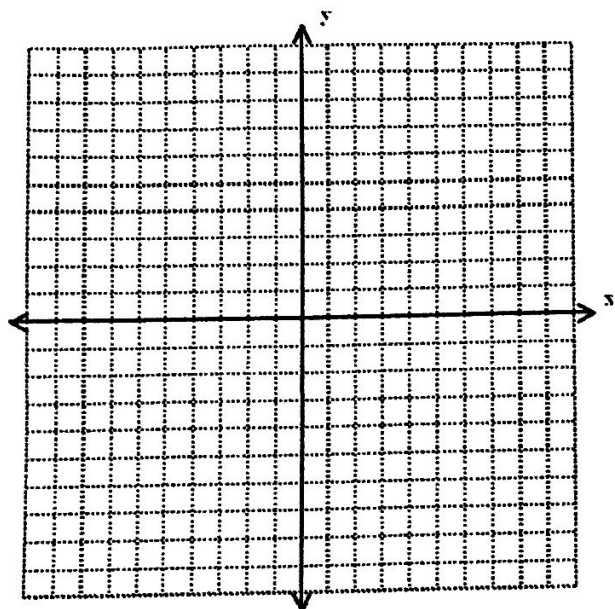
$$f(-3) =$$

$$f(0) =$$



4. Graph the piecewise function and evaluate it at the given values of  $x$ .

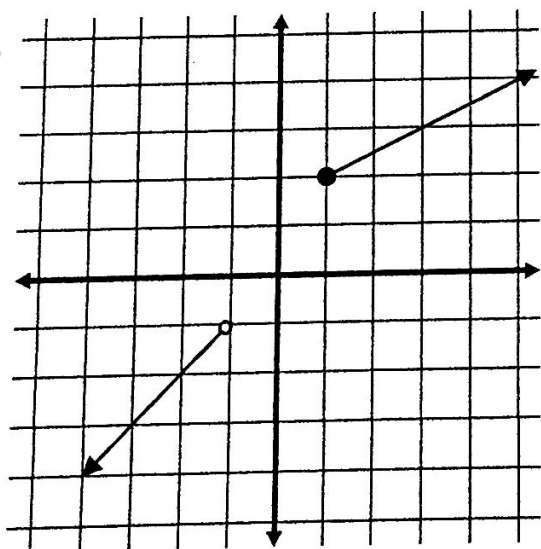
$$f(x) = \begin{cases} 2x - 1, & x \leq -2 \\ 4, & -2 < x \leq 3 \\ -x + 2, & x > 3 \end{cases}$$



Evaluate.  $f(-4) =$

$f(3) =$

5.



Write the piecewise function for the graph.